

Figure 1

Resolution Limit vs. Aperture Diameter for 2.5 mm BK-7
Ball Lens with a Cover Glass
(Illumination $\lambda = 550 \text{ nm}$)

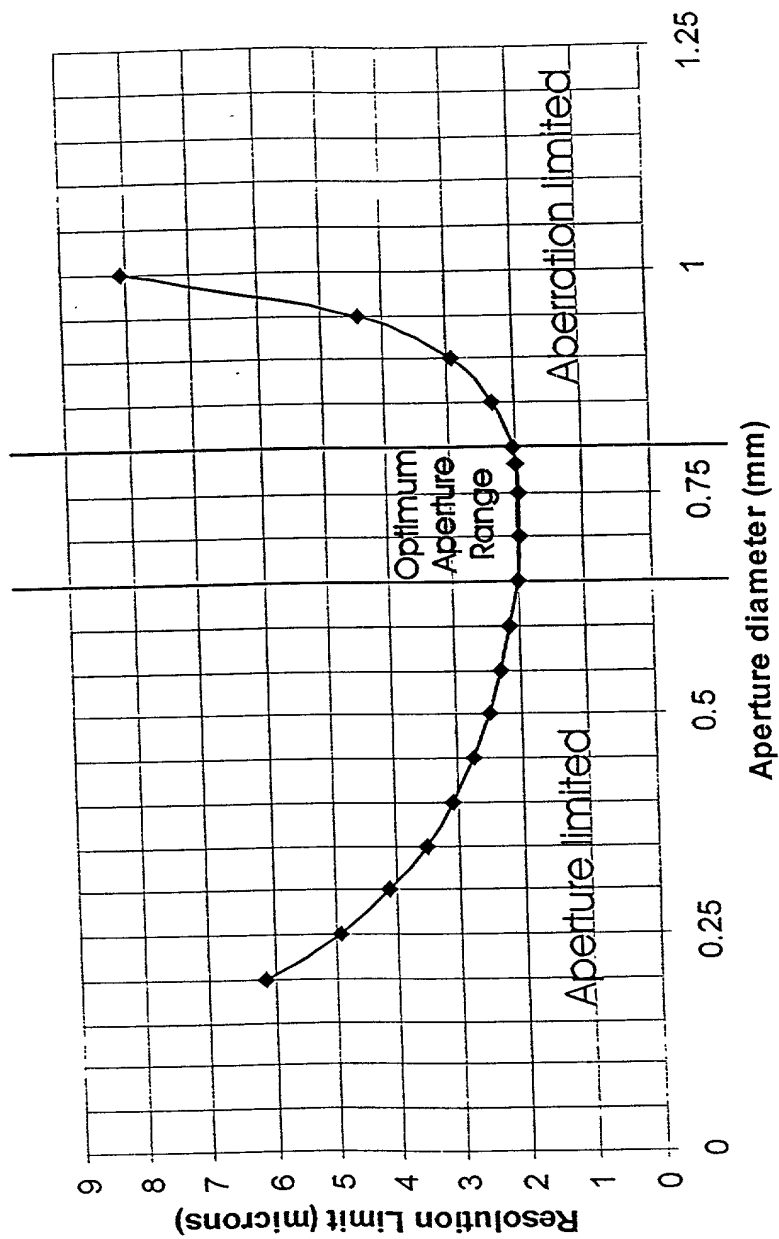


Figure 2

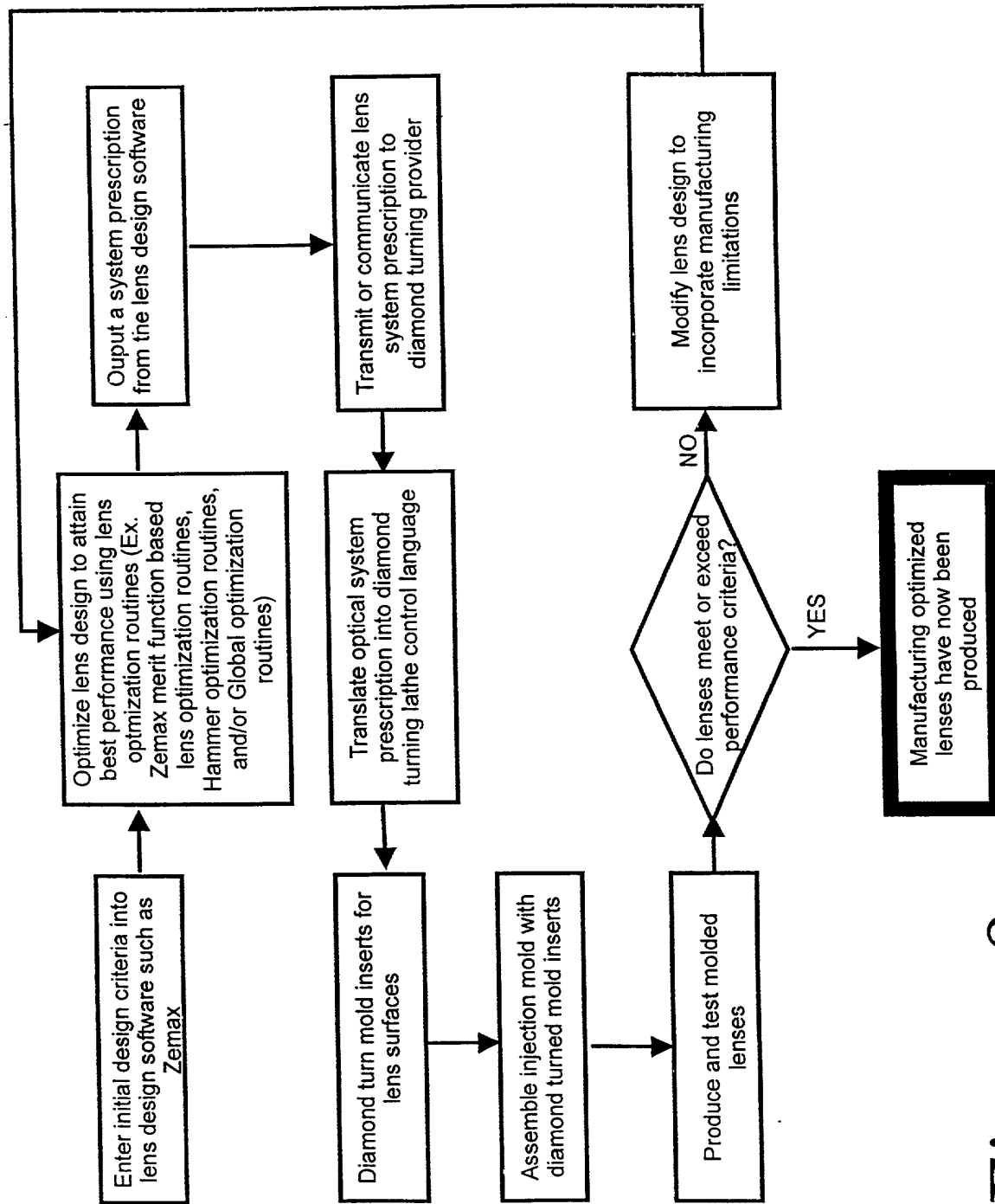


Figure 3

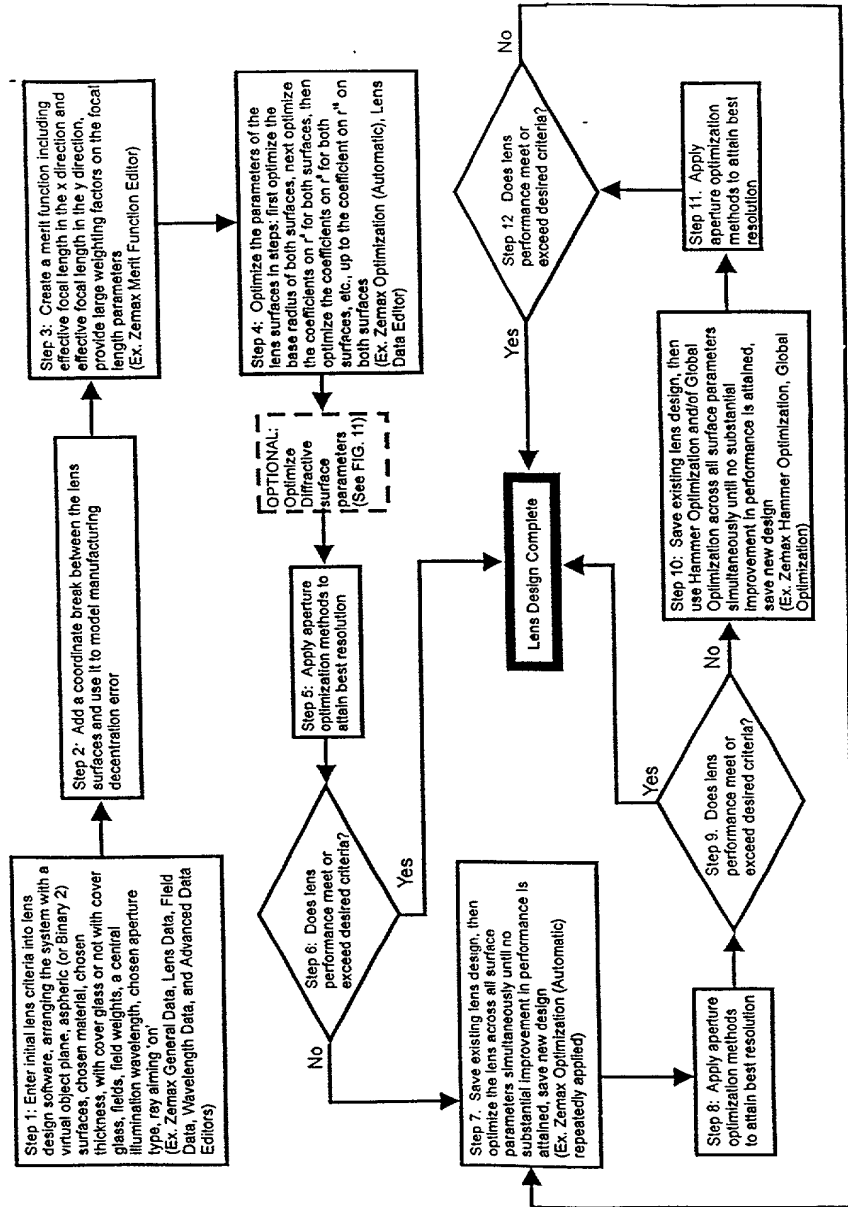
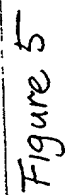


Figure 4

5/30



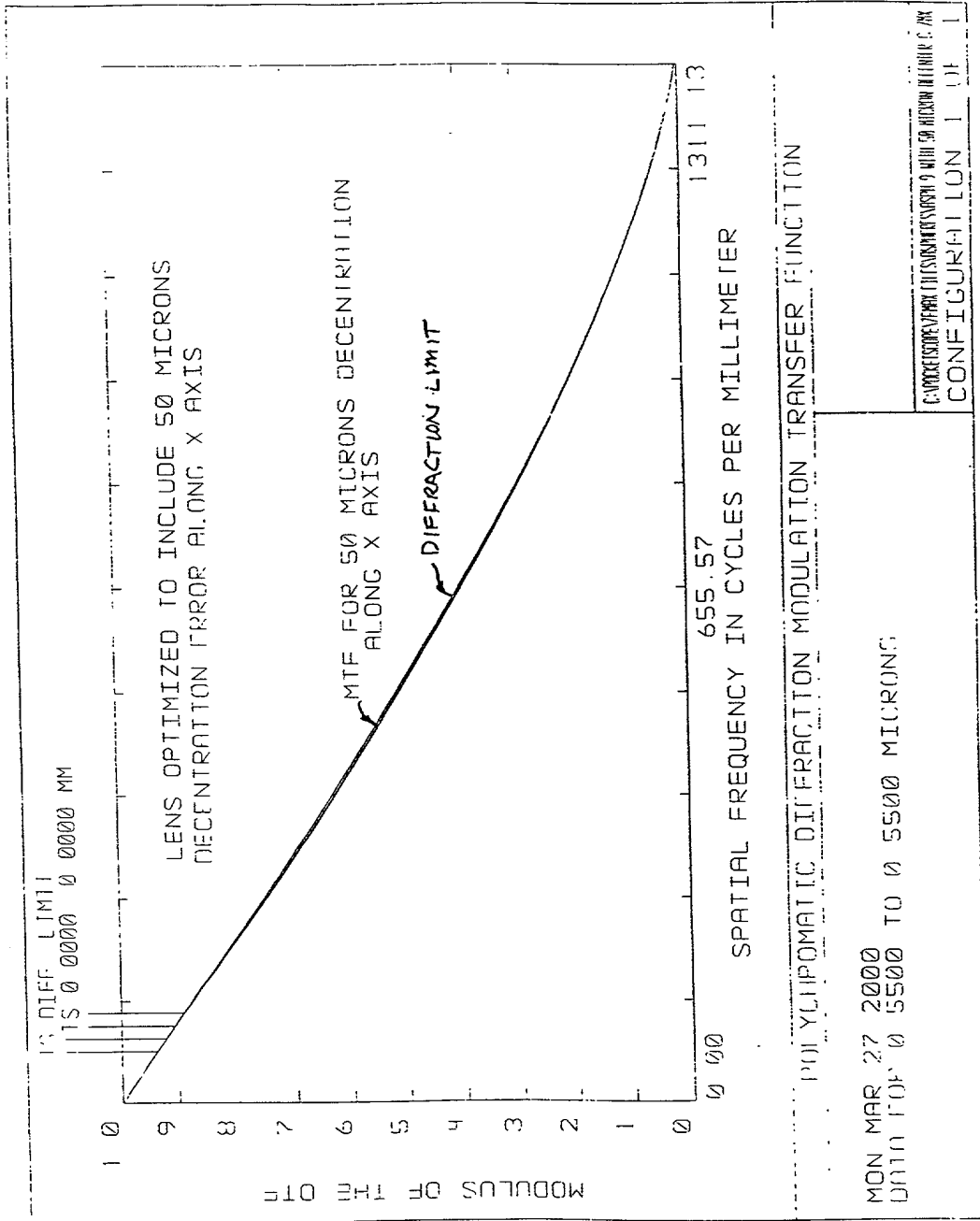


Figure 7

FILED 03 MAR 27 2000

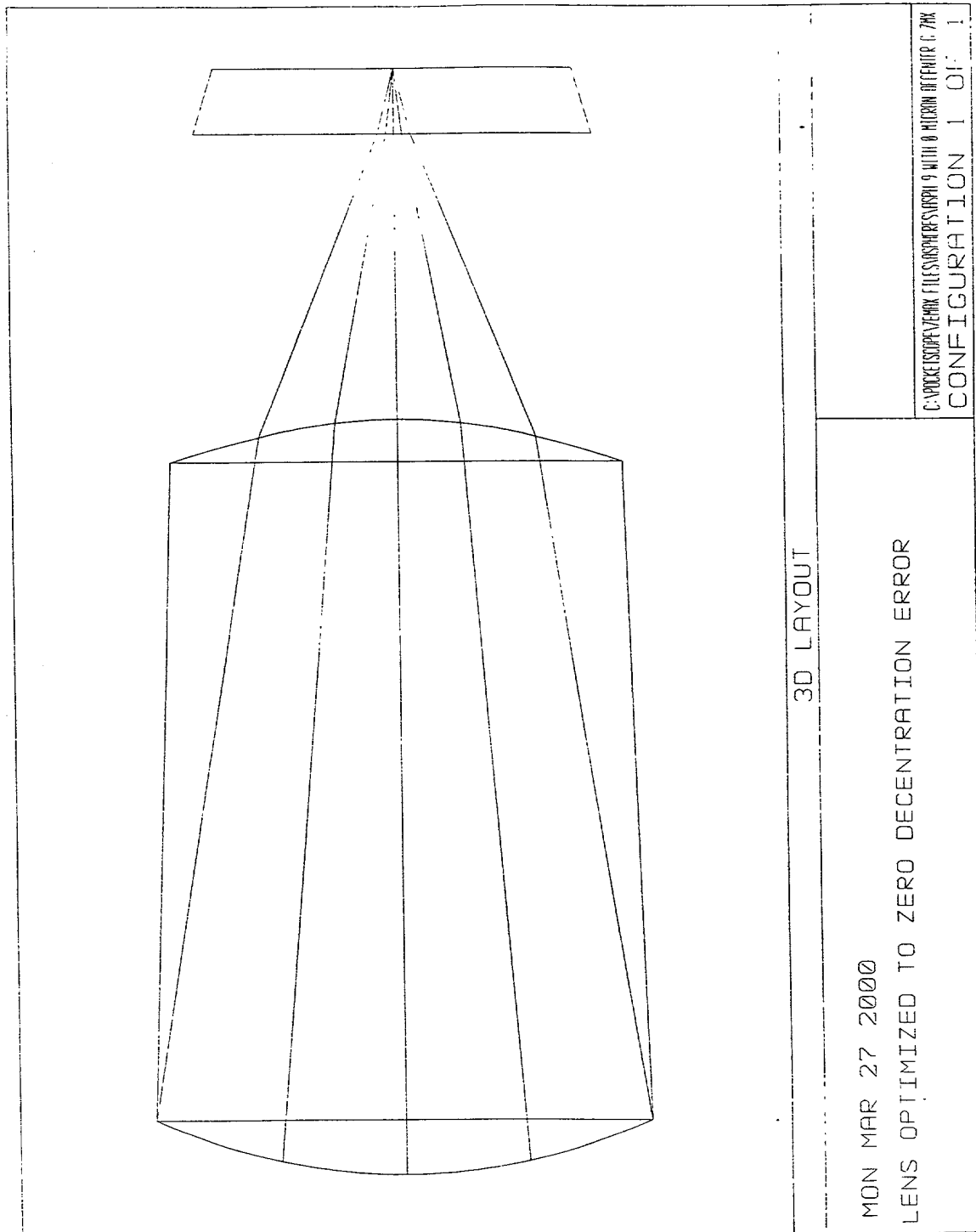


Figure 8

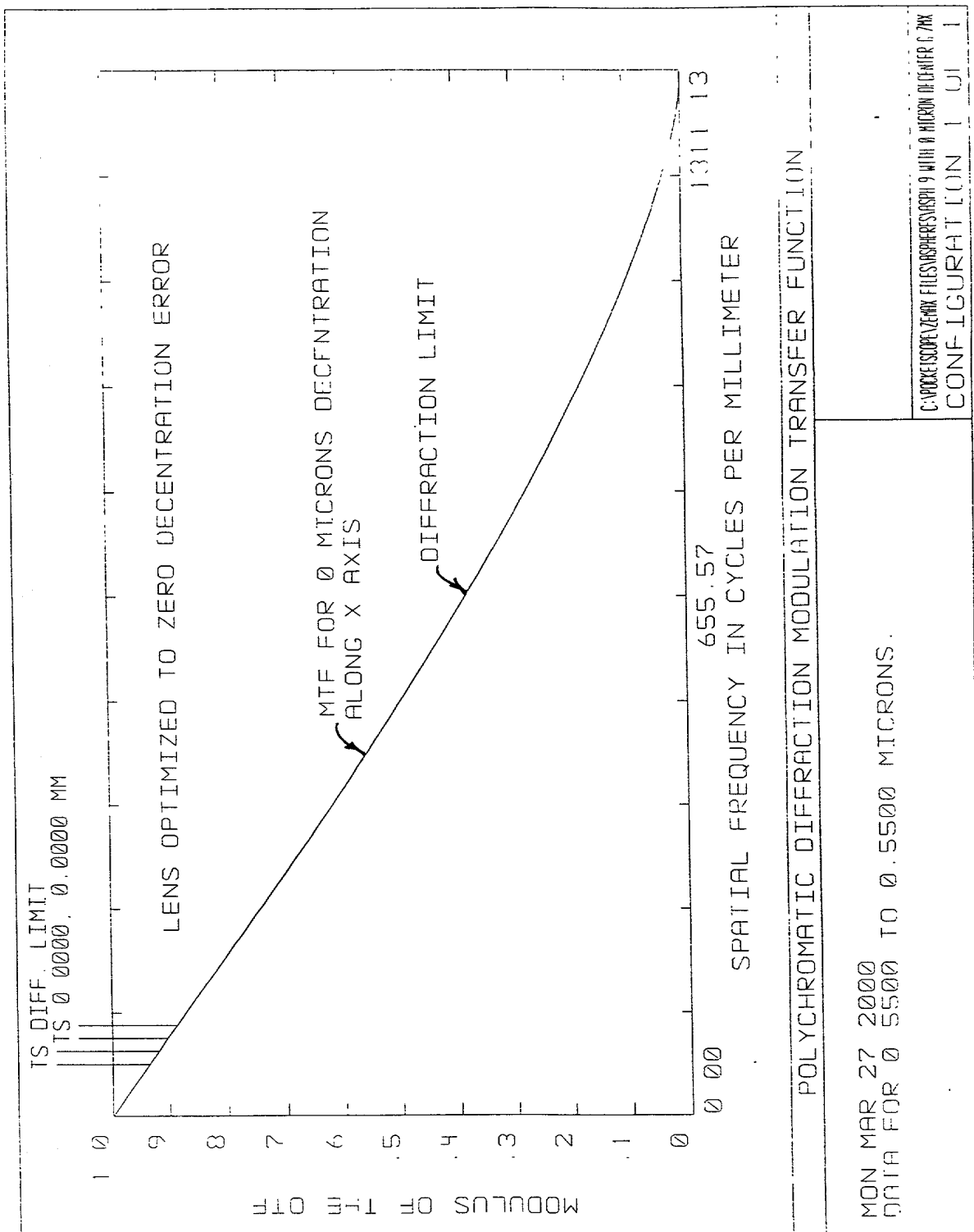


Figure 9

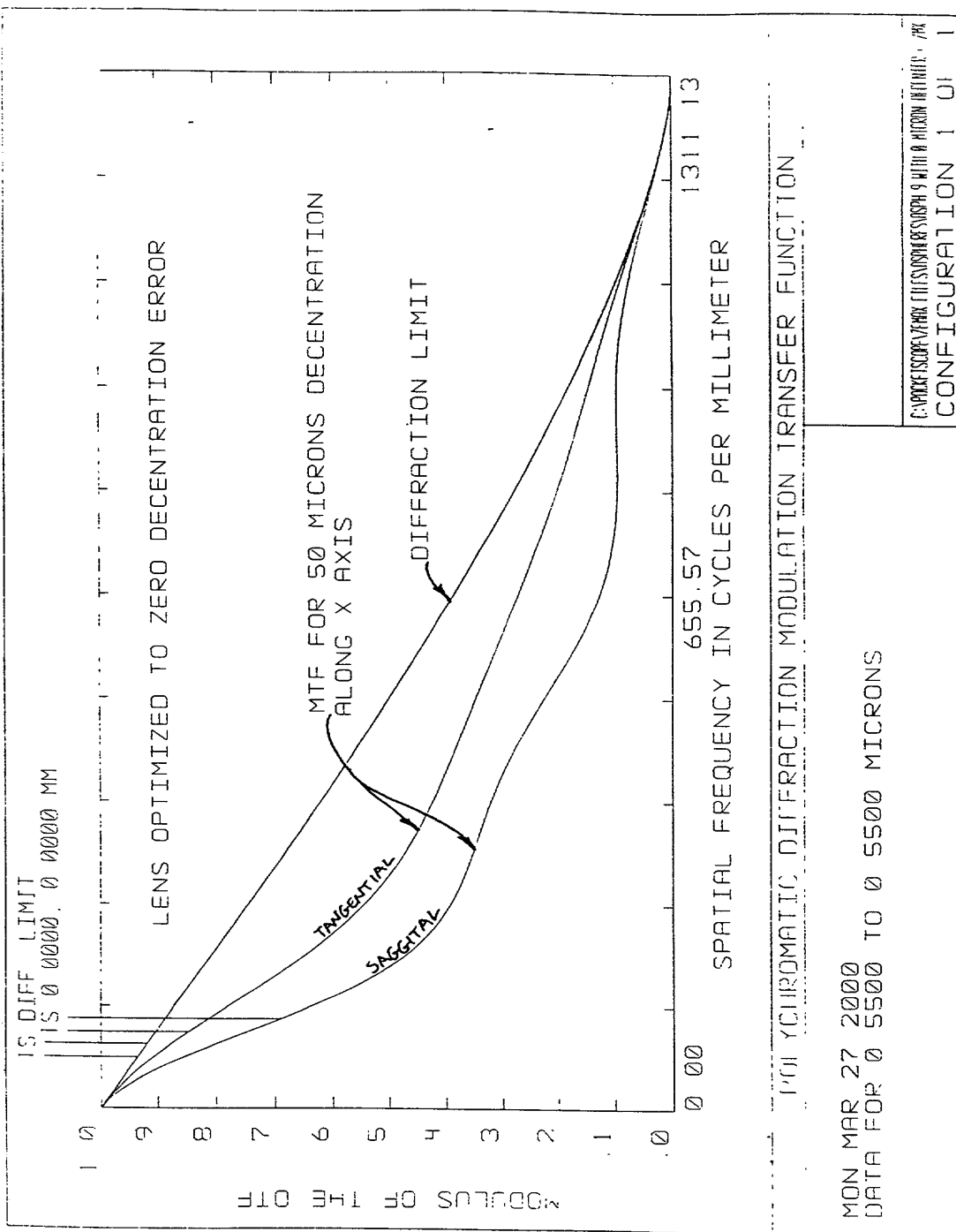


Figure 10

FIG. 4 OPTIONAL STEP

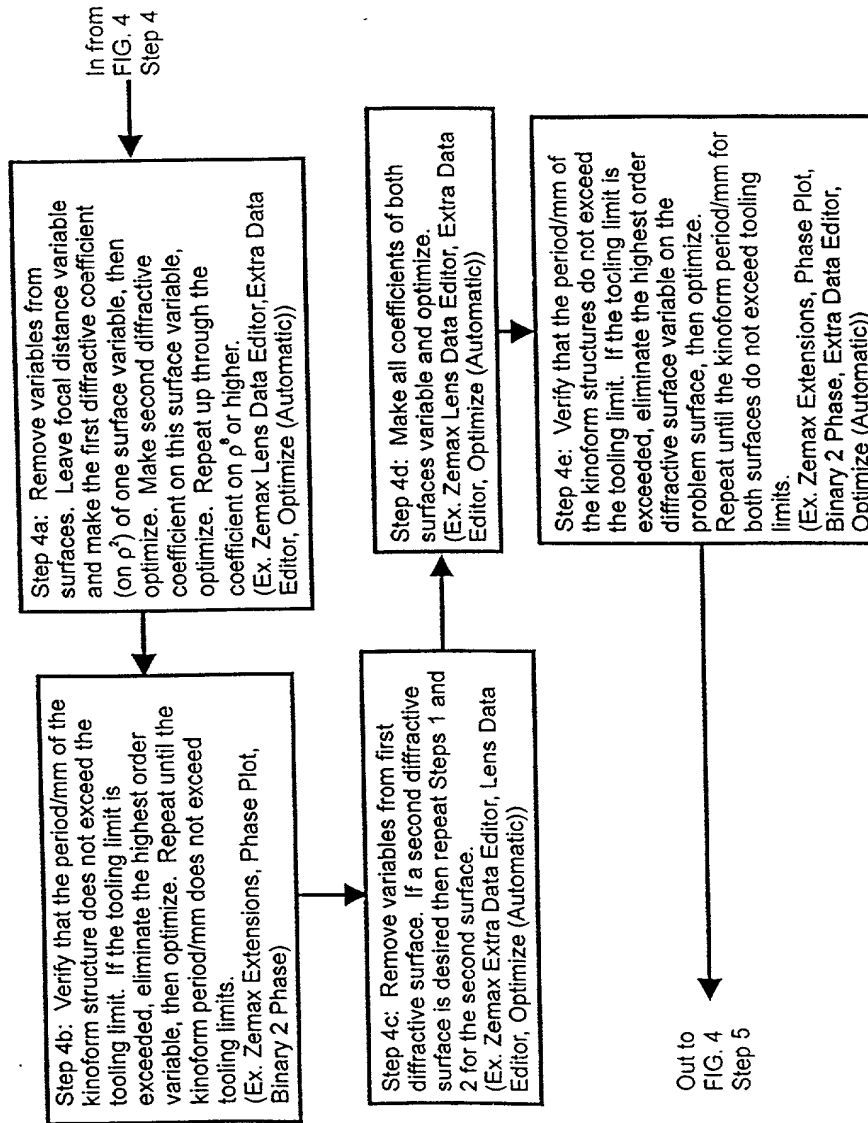


Figure 11

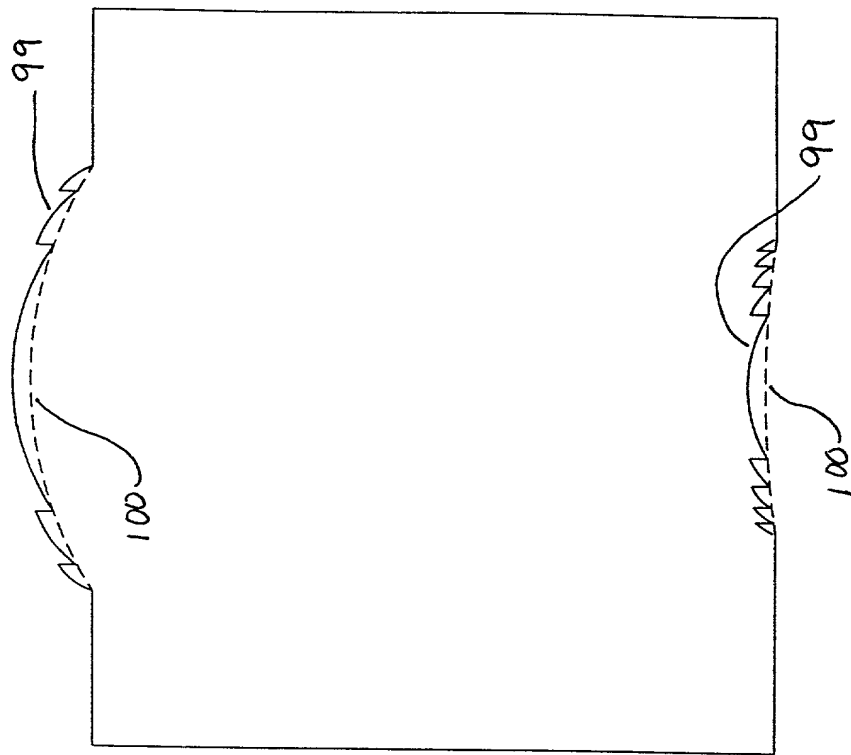


Figure 12

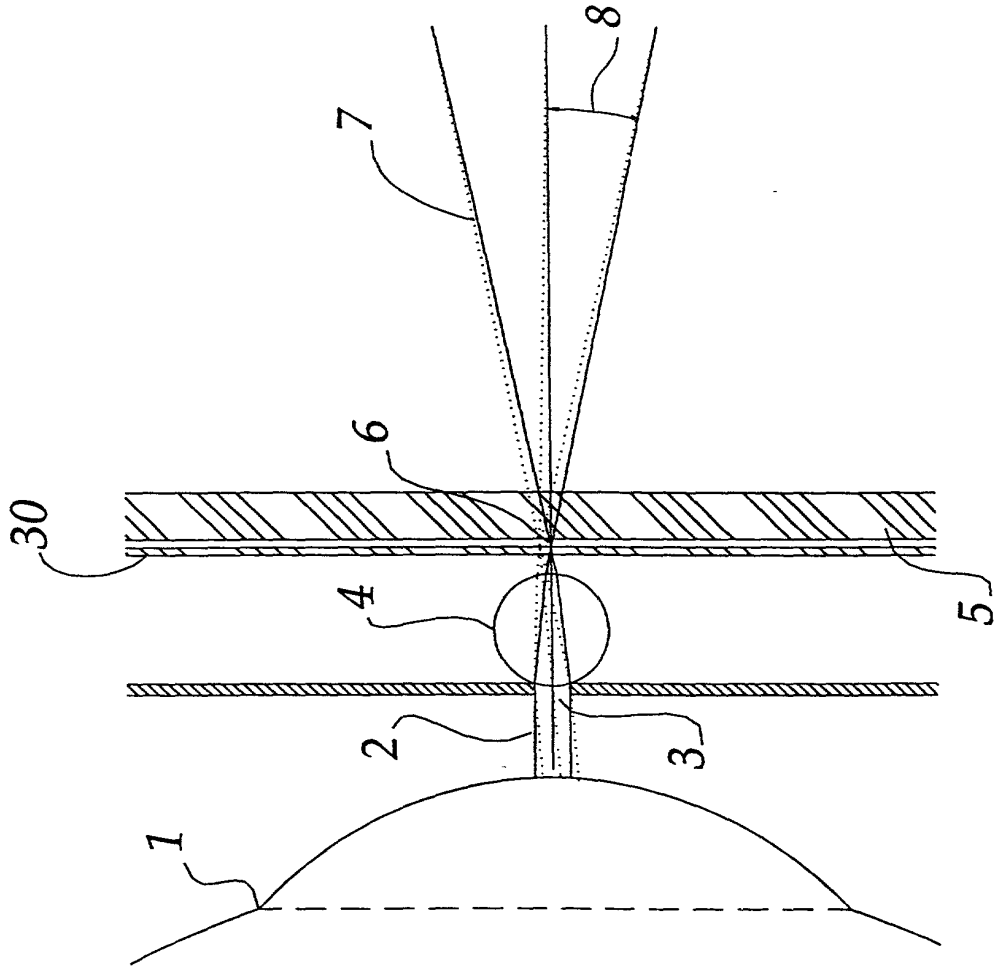
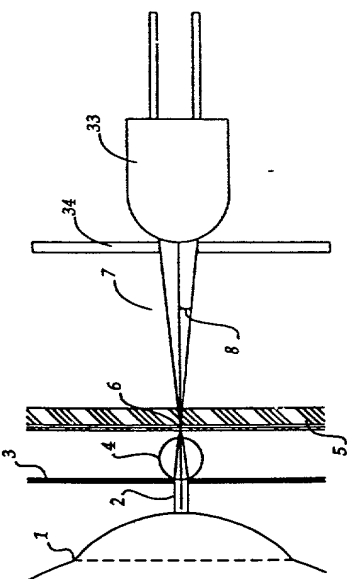
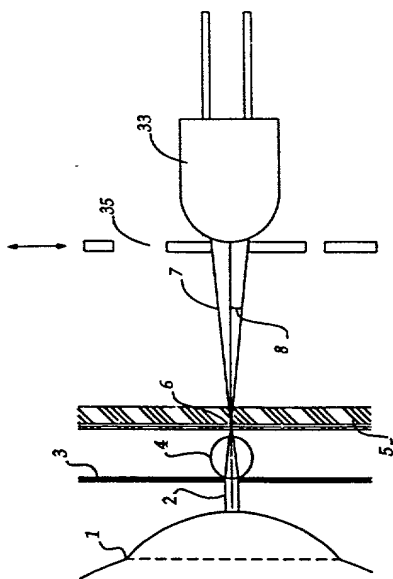


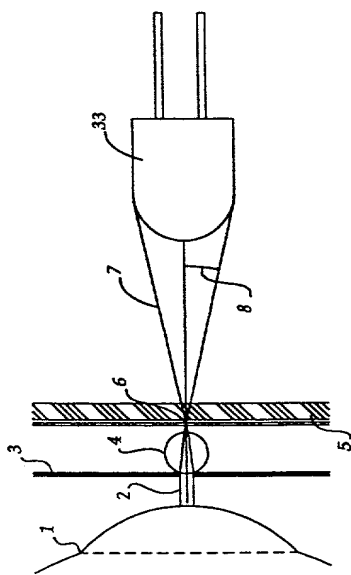
Figure 13



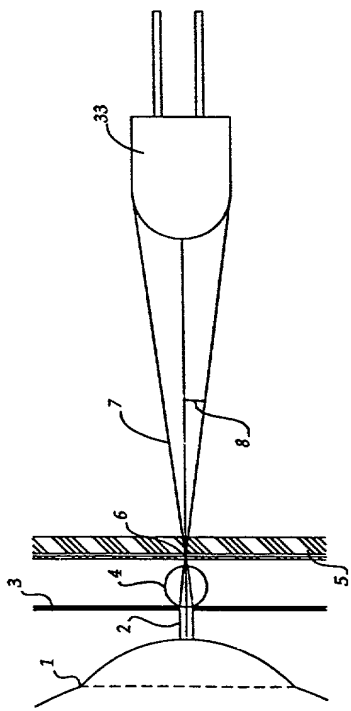
(C)



(D)

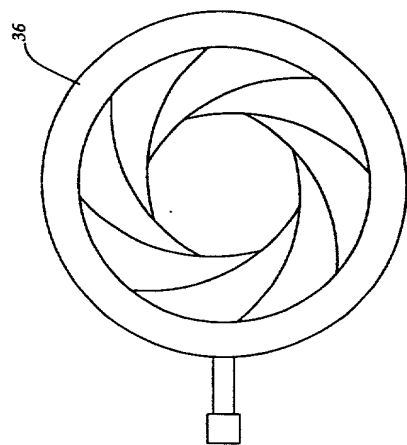


(A)

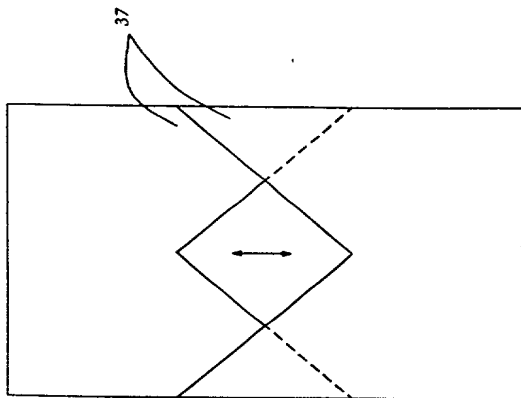


(B)

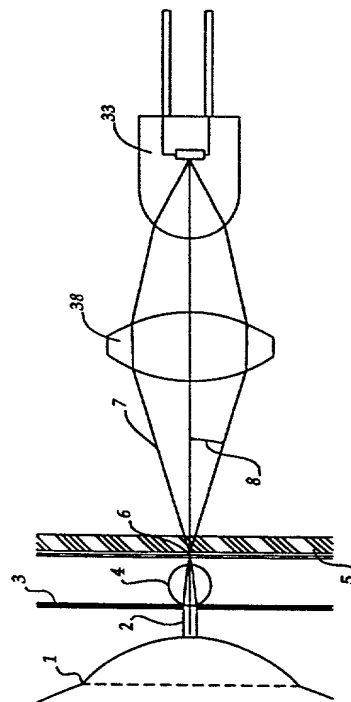
Figure 15



(A)



(B)



(C)

Figure 16

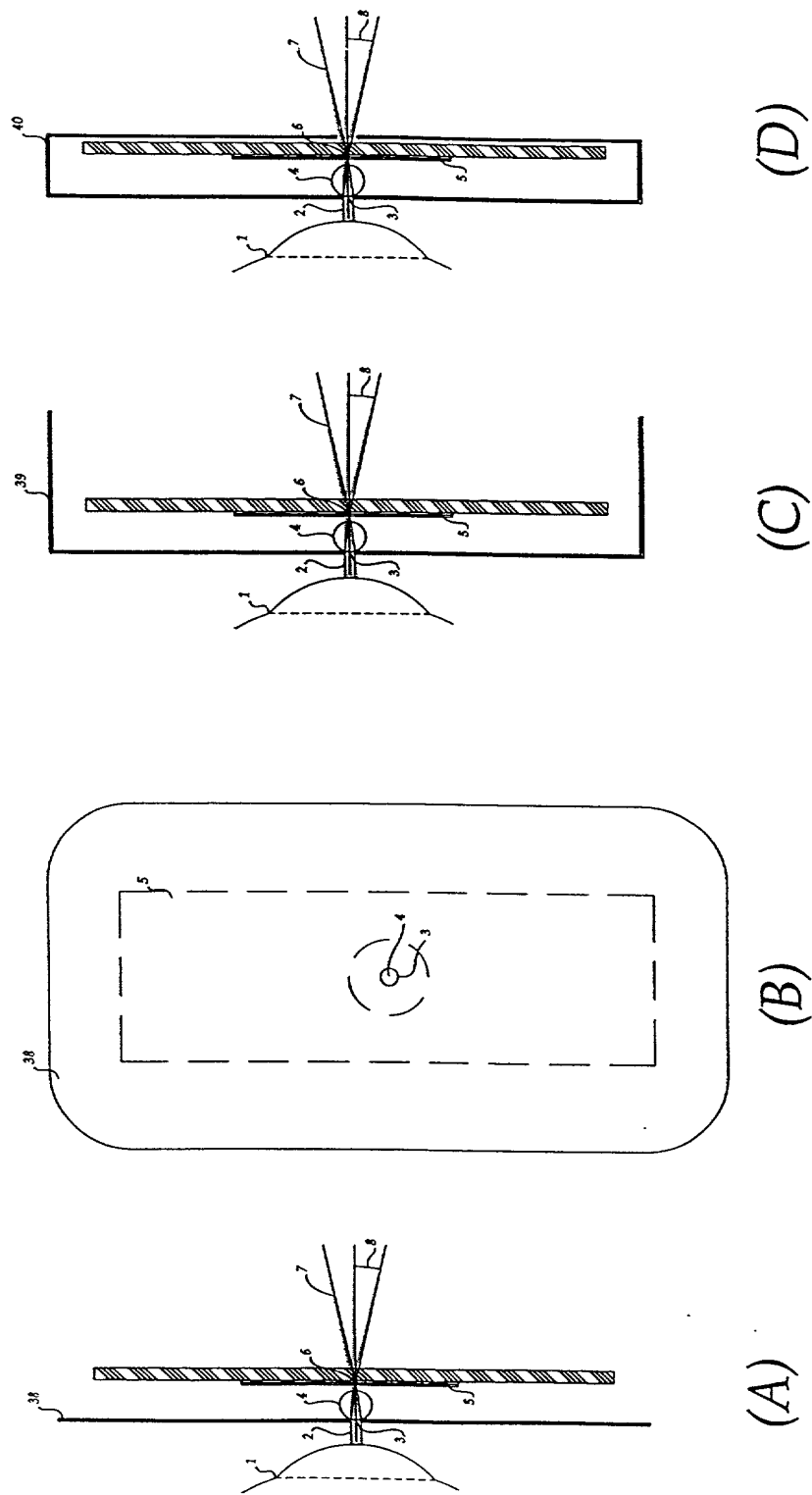
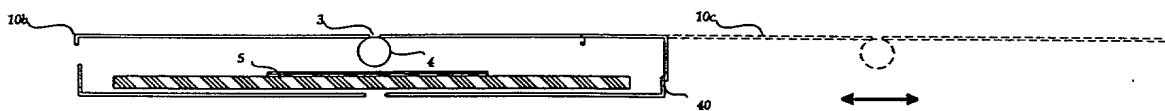
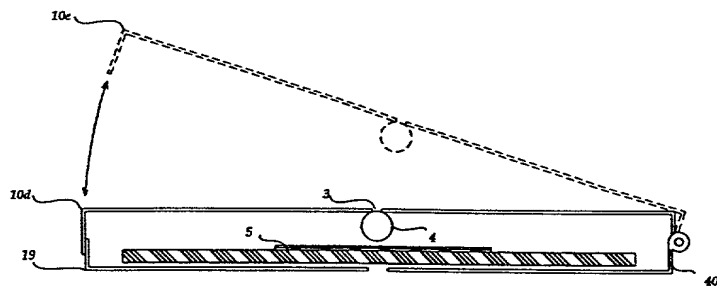


Figure 17

(A)



(B)



(C)

Figure 18

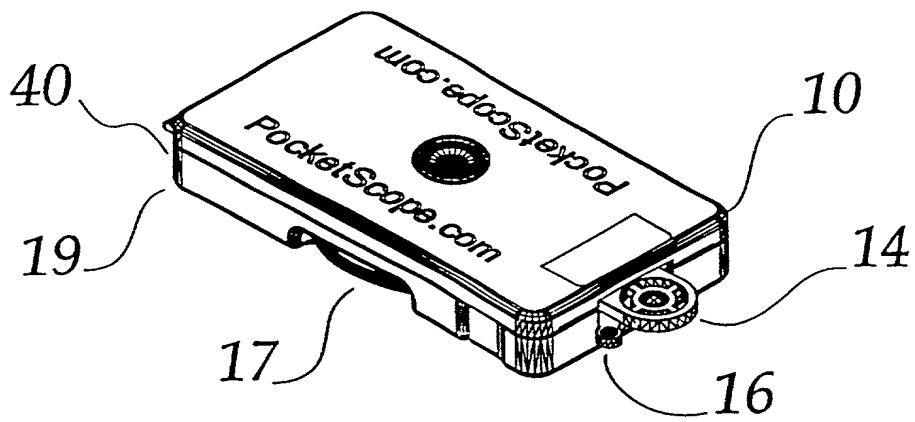


Figure 19

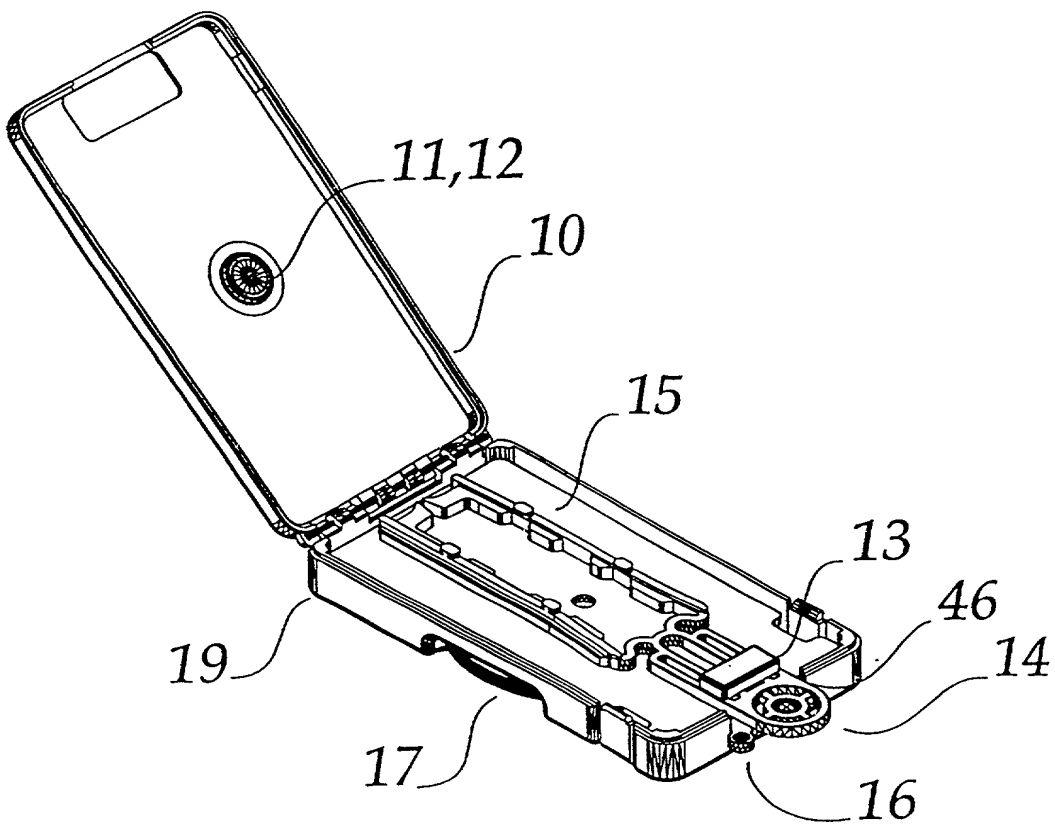


Figure 20

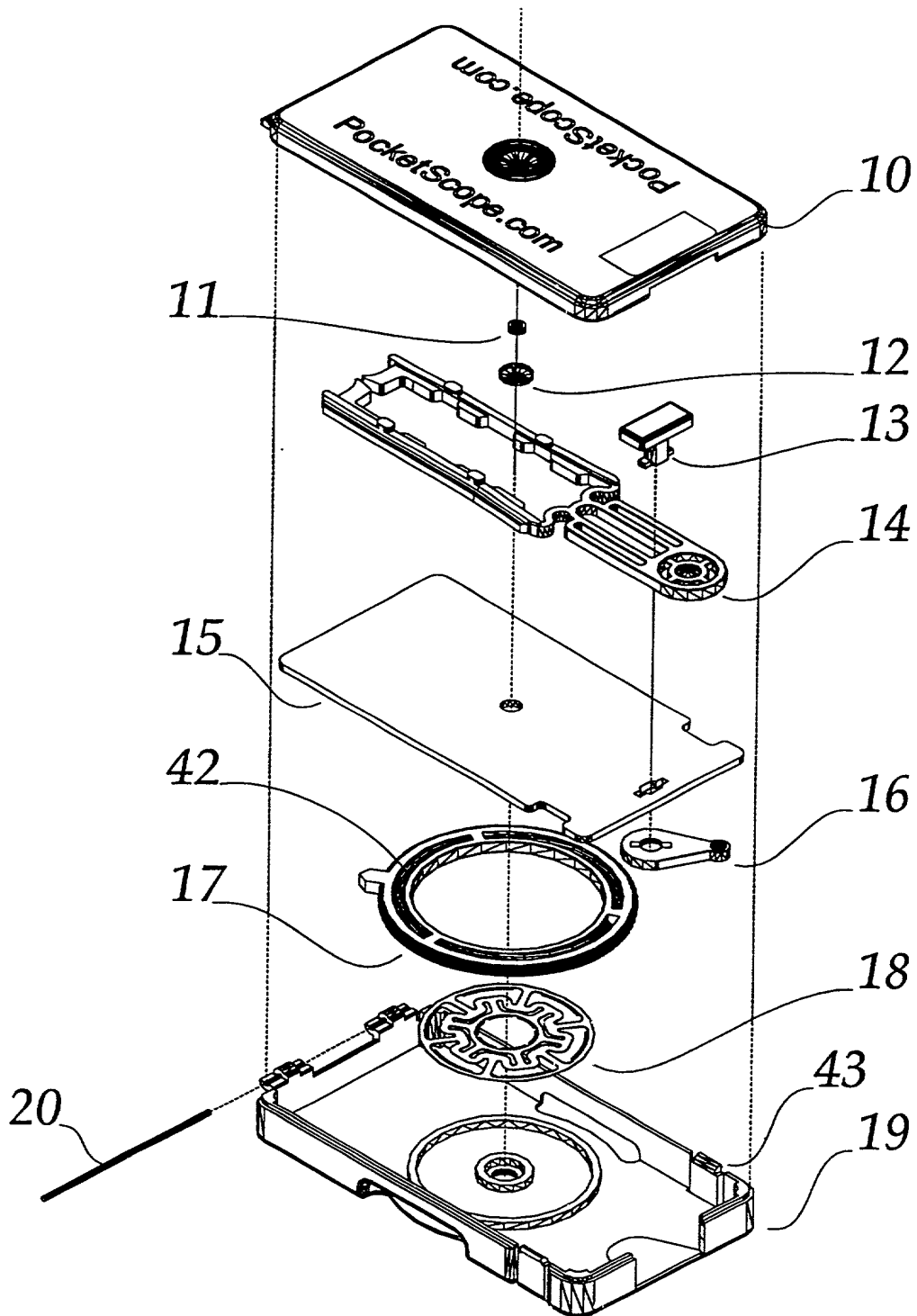


Figure 21

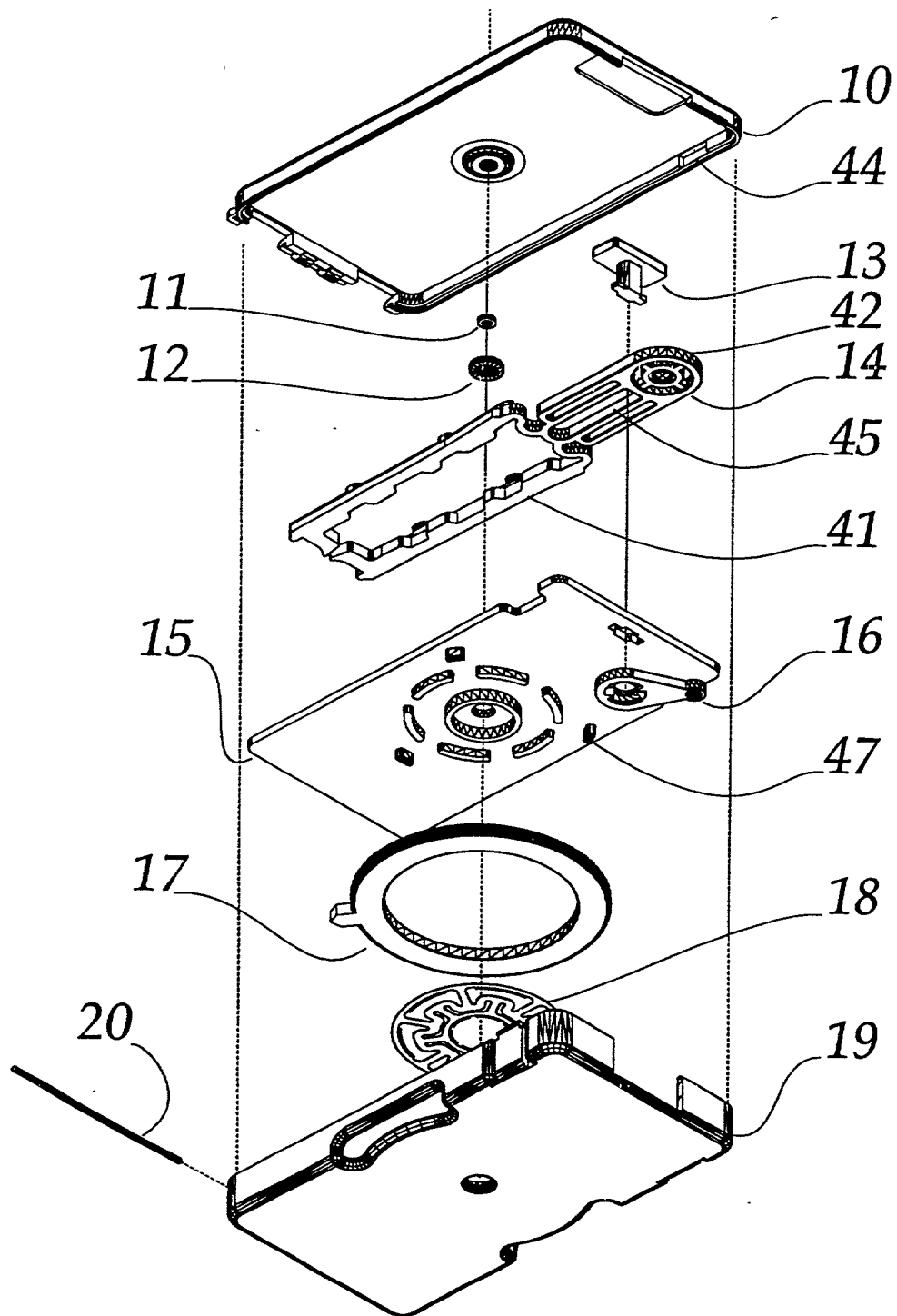


Figure 22

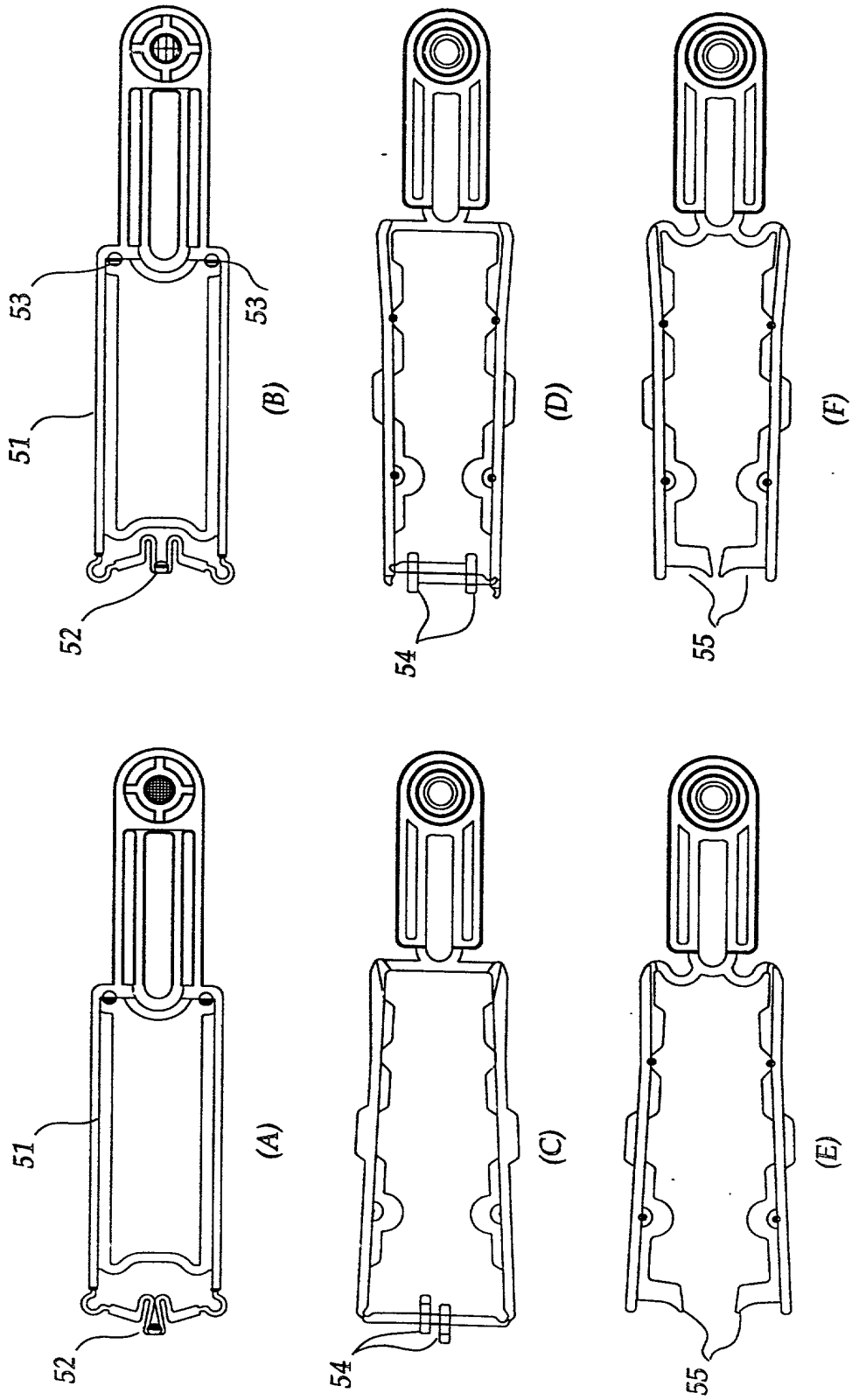


Figure 23

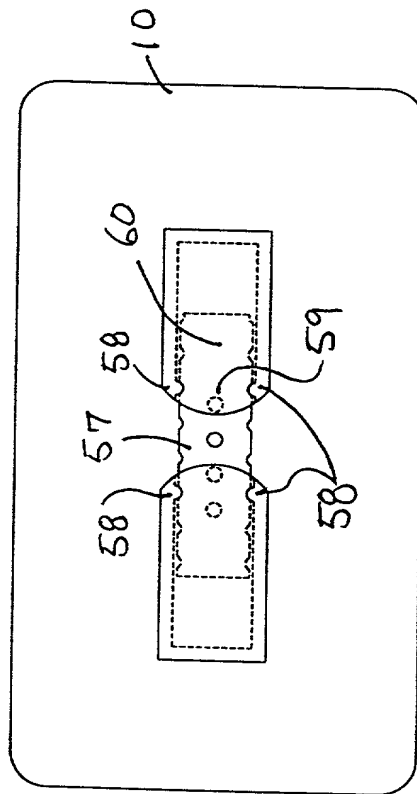
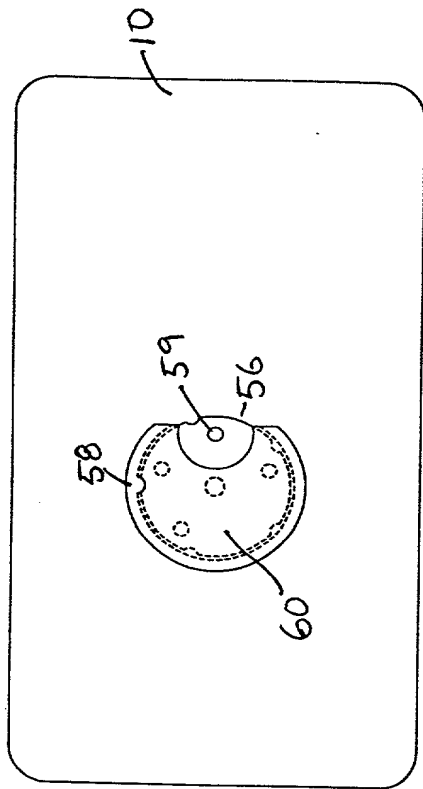


FIGURE 24

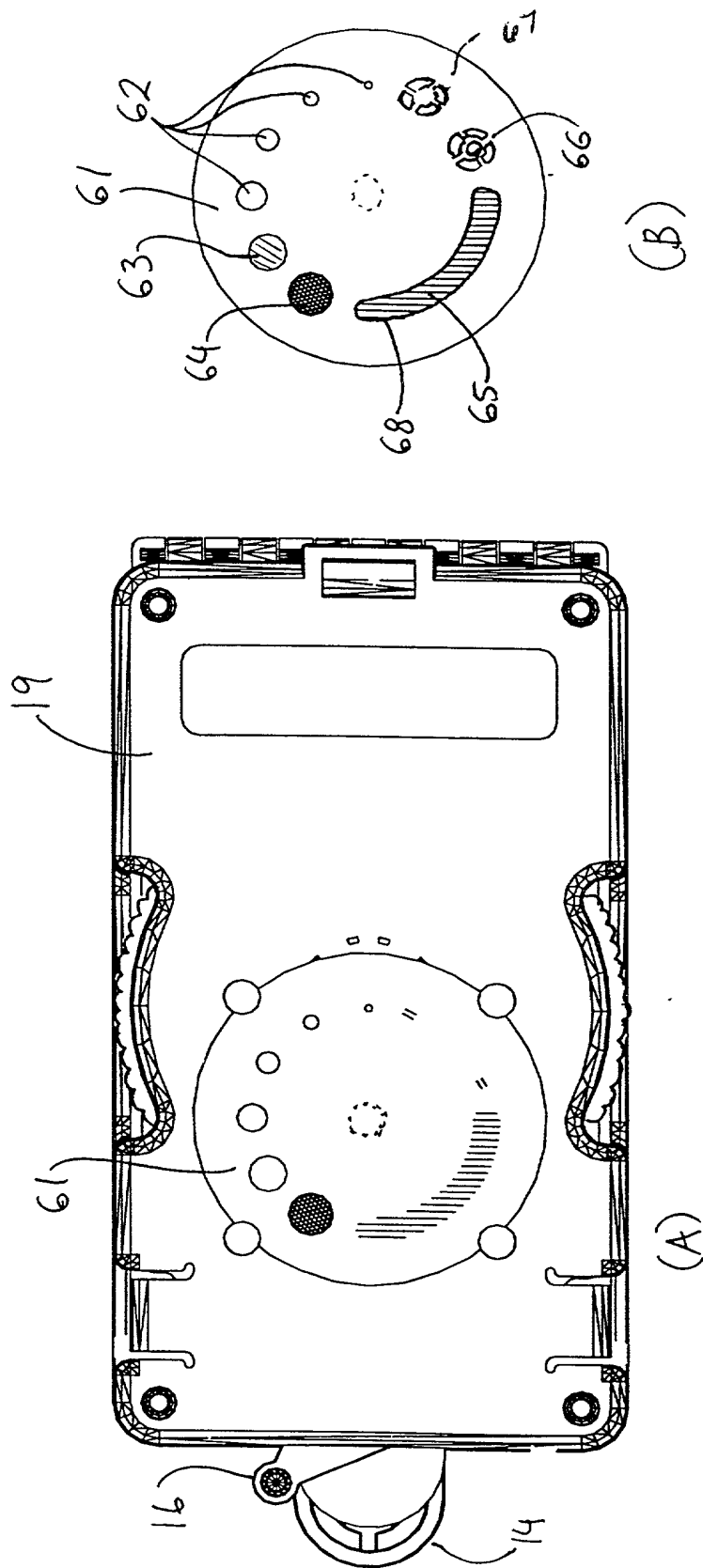


Figure 25

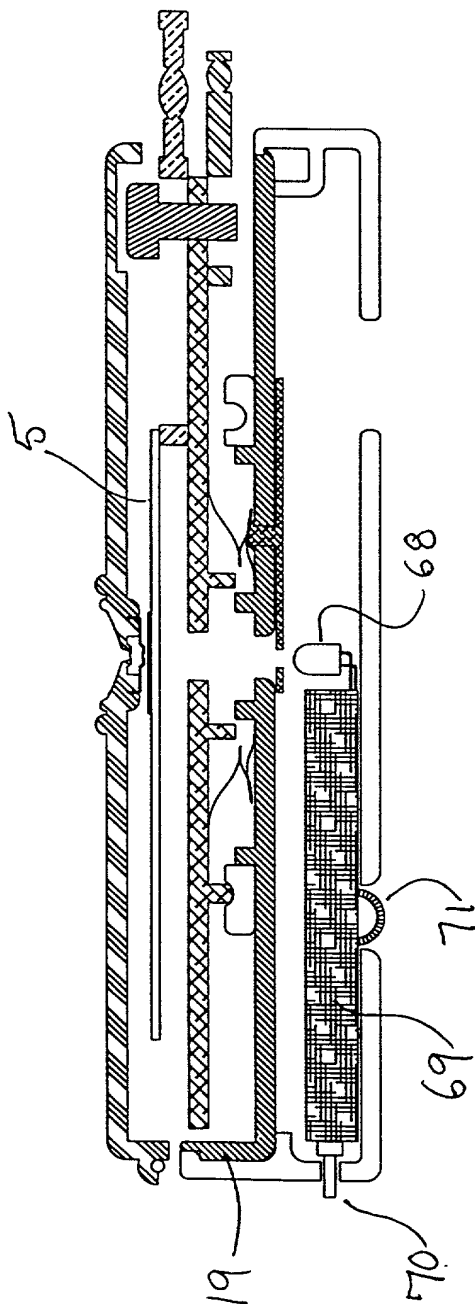


Figure 26

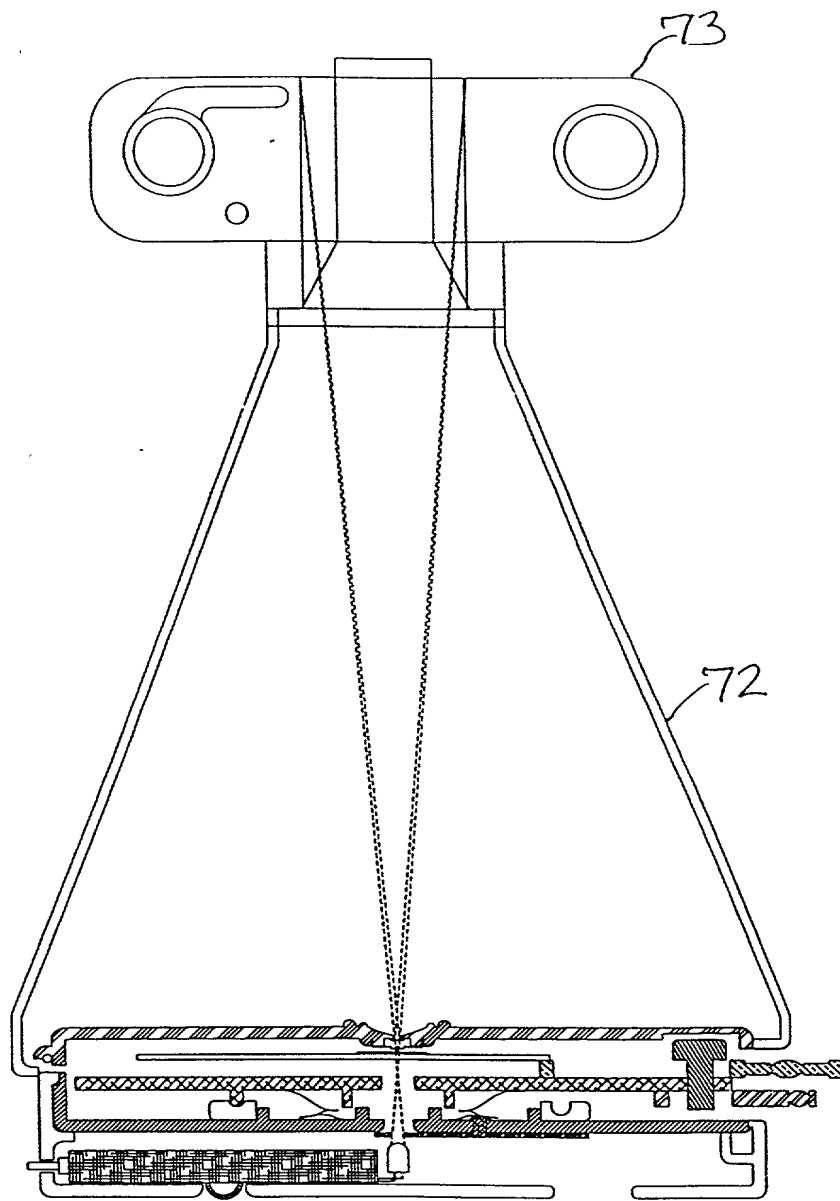


Figure 27

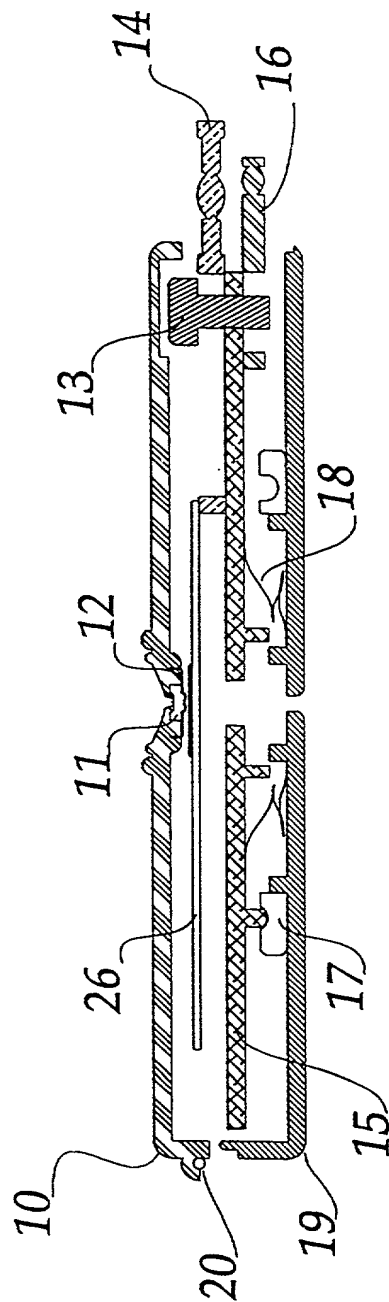


Figure 28

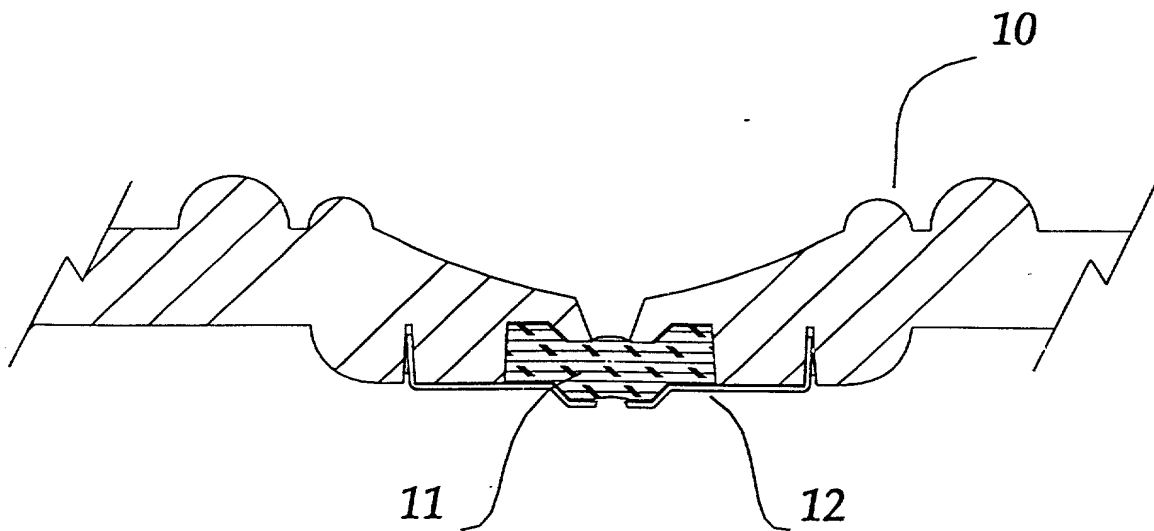


Figure 29

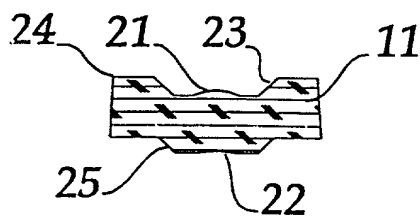


Figure 30

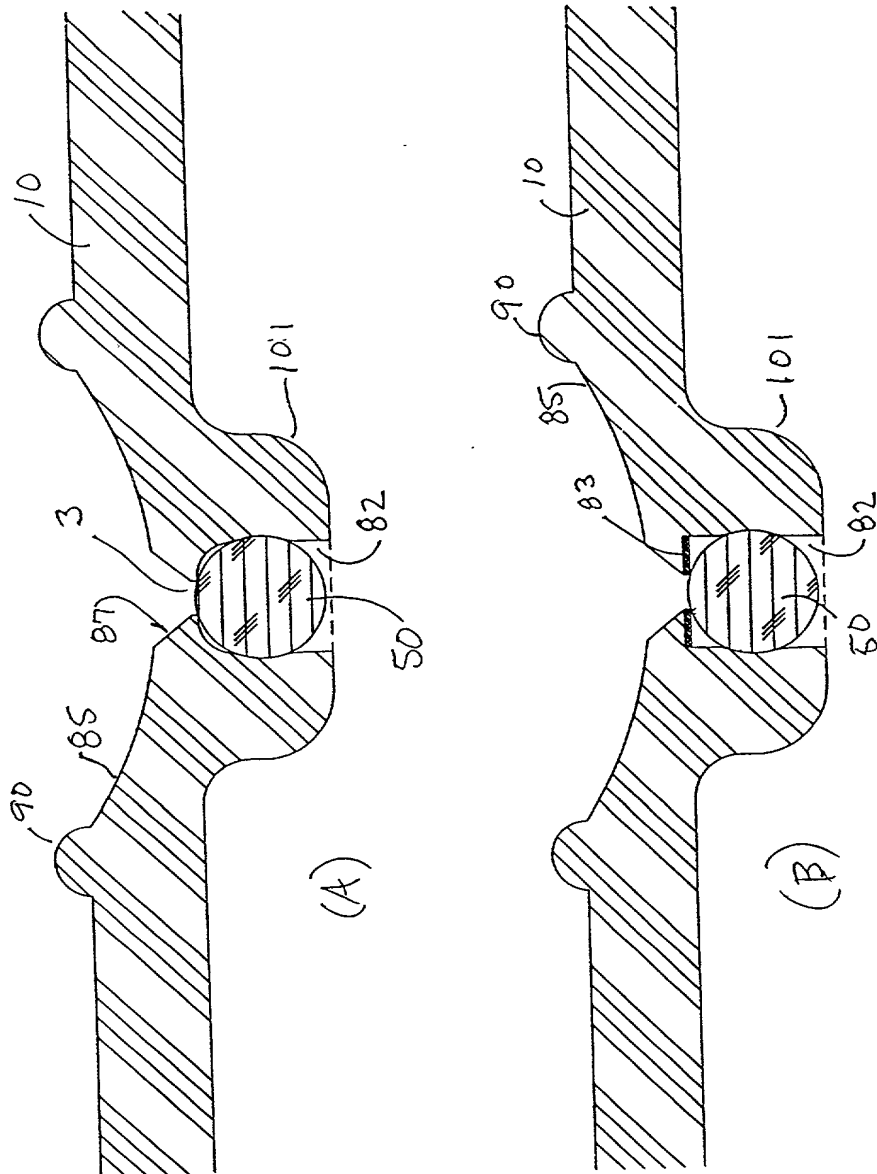


Figure 31

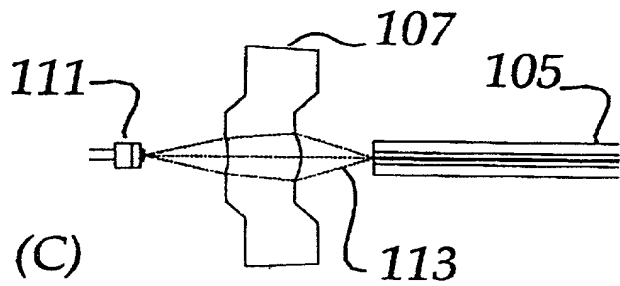
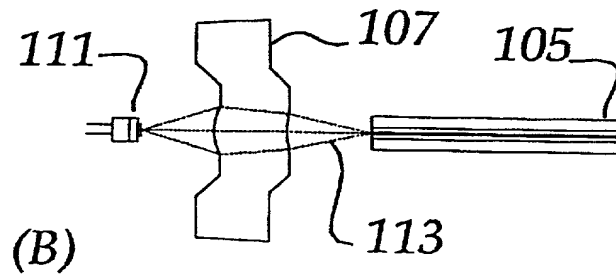
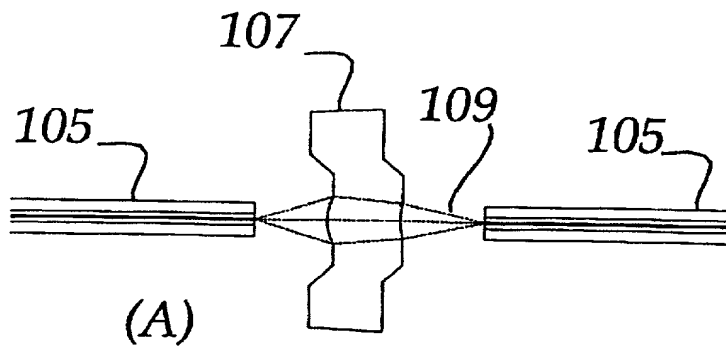


Figure 32